

INTERNATIONAL SEARCH REPORT

onal Application No

IB2004/051176

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 G11B20/18

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 G11B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 6 034 831 A (YU MANTLE MAN-HON ET AL) 7 March 2000 (2000-03-07) figures 1,3,4,5A-5B,6,7A-7C column 1, line 21 - column 2, line 63 column 3, line 31 - column 4, line 48 column 5, line 30 - column 10, line 3	1-4,6, 8-11
Y	-----	5,7
Y	EP 1 249 838 A (SAMSUNG ELECTRONICS CO LTD) 16 October 2002 (2002-10-16) the whole document	5,7
P,X	----- WO 03/065369 A (WIJNANDS RUDI J M ; MESUT OZCAN (NL); KONINKL PHILIPS ELECTRONICS NV () 7 August 2003 (2003-08-07) the whole document	1-11
	----- -/--	

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents :

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

- *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- *&* document member of the same patent family

Date of the actual completion of the international search

10 November 2004

Date of mailing of the international search report

23/11/2004

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
Fax: (+31-70) 340-3016

Authorized officer

Barel-Faucheux, C

INTERNATIONAL SEARCH REPORT

onal Application No

IB2004/051176

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	EP 1 061 517 A (MATSUSHITA ELECTRIC IND CO LTD) 20 December 2000 (2000-12-20) paragraphs '0019!', '0020! paragraphs '0027! - '0031! figures 1A,1B -----	1-11
A	US 5 956 309 A (YAMAMURO MIKIO) 21 September 1999 (1999-09-21) cited in the application the whole document -----	1-11
A	US 2001/028783 A1 (PERSOON ERIC H J) 11 October 2001 (2001-10-11) paragraphs '0002!, '0031! - '0036! figures 1-3 -----	1-11
A	US 6 470 461 B1 (PINVIDIC DANIEL R ET AL) 22 October 2002 (2002-10-22) column 1, line 48 - column 2, line 23 column 2, line 59 - column 3, line 57 -----	1-11
A	US 6 279 089 B1 (SWATOSH TIMOTHY W ET AL) 21 August 2001 (2001-08-21) the whole document figure 4 -----	1-11
A	US 2001/042223 A1 (HOSKINS EDWARD SEAN) 15 November 2001 (2001-11-15) the whole document -----	1-11
A	WO 98/16014 A (PHILIPS ELECTRONICS NV ; PHILIPS NORDEN AB (SE)) 16 April 1998 (1998-04-16) cited in the application the whole document -----	1-11
A	EP 0 866 456 A (MATSUSHITA ELECTRONICS CORP) 23 September 1998 (1998-09-23) the whole document -----	5,7

INTERNATIONAL SEARCH REPORT

Information on patent family members

onal Application No

IB2004/051176

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 6034831	A	07-03-2000	NONE
EP 1249838	A	16-10-2002	EP 1150293 A1 31-10-2001
			EP 1150294 A1 31-10-2001
			EP 1150295 A1 31-10-2001
			EP 1249838 A1 16-10-2002
			EP 1265240 A1 11-12-2002
			EP 1306846 A2 02-05-2003
			EP 1306847 A2 02-05-2003
			BR 9901410 A 18-01-2000
			CN 1393874 A 29-01-2003
			CN 1393875 A 29-01-2003
			CN 1393876 A 29-01-2003
			CN 1393877 A 29-01-2003
			CN 1393878 A 29-01-2003
			CN 1236950 A , B 01-12-1999
			DE 69906176 D1 30-04-2003
			DE 69906176 T2 08-01-2004
			DE 69920276 D1 21-10-2004
			DE 69920277 D1 21-10-2004
			DE 69920293 D1 21-10-2004
			DE 69920532 D1 28-10-2004
			EP 0953977 A1 03-11-1999
			ID 22000 A 19-08-1999
			JP 2000030253 A 28-01-2000
			JP 2002074856 A 15-03-2002
			JP 2001320662 A 16-11-2001
			JP 2001320663 A 16-11-2001
			JP 2003059203 A 28-02-2003
			RU 2228547 C2 10-05-2004
			SG 93201 A1 17-12-2002
			TW 444188 B 01-07-2001
			US 6389569 B1 14-05-2002
			US 6389570 B1 14-05-2002
			US 6775803 B1 10-08-2004
			US 2004136304 A1 15-07-2004
			US 2004136290 A1 15-07-2004
			US 2001054168 A1 20-12-2001
WO 03065369	A	07-08-2003	EP 1472696 A1 03-11-2004
			WO 03065369 A1 07-08-2003
EP 1061517	A	20-12-2000	JP 2001006294 A 12-01-2001
			AU 734564 B2 14-06-2001
			AU 2763300 A 25-01-2001
			EP 1367583 A2 03-12-2003
			EP 1367584 A2 03-12-2003
			EP 1061517 A1 20-12-2000
US 5956309	A	21-09-1999	JP 2848809 B2 20-01-1999
			JP 9259538 A 03-10-1997
			US 6031804 A 29-02-2000
			AT 194248 T 15-07-2000
			AU 695695 B2 20-08-1998
			AU 2233697 A 17-10-1997
			BR 9702185 A 16-03-1999
			CA 2222007 A1 02-10-1997
			CN 1183161 A 27-05-1998

INTERNATIONAL SEARCH REPORT

Information on patent family members

onal Application No

IB2004/051176

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 5956309	A	DE 69702361 D1	03-08-2000
		DE 69702361 T2	04-01-2001
		DK 798712 T3	11-09-2000
		EP 0798712 A2	01-10-1997
		ES 2150160 T3	16-11-2000
		GR 3033812 T3	31-10-2000
		HK 1003521 A1	11-05-2001
		WO 9736296 A1	02-10-1997
		KR 262805 B1	01-08-2000
		NO 975381 A	23-01-1998
		RU 2174716 C2	10-10-2001
		TW 392151 B	01-06-2000
		US 5805547 A	08-09-1998
US 2001028783	A1	11-10-2001	
		AT 266891 T	15-05-2004
		CN 1135555 B	21-01-2004
		DE 69917198 D1	17-06-2004
		WO 0004548 A1	27-01-2000
		EP 1016083 A1	05-07-2000
		JP 2002520973 T	09-07-2002
		US 6263149 B1	17-07-2001
US 6470461	B1	22-10-2002	
		AU 5592400 A	28-12-2000
		CA 2375672 A1	14-12-2000
		EP 1188163 A1	20-03-2002
		JP 2003501778 T	14-01-2003
		WO 0075926 A1	14-12-2000
US 6279089	B1	21-08-2001	NONE
US 2001042223	A1	15-11-2001	NONE
WO 9816014	A	16-04-1998	
		AU 4217397 A	05-05-1998
		BR 9706828 A	23-03-1999
		CN 1209917 A ,B	03-03-1999
		EP 0865685 A1	23-09-1998
		HU 9902037 A2	29-11-1999
		WO 9816014 A1	16-04-1998
		ID 20262 A	12-11-1998
		JP 2000502539 T	29-02-2000
		PL 327230 A1	07-12-1998
		RU 2178618 C2	20-01-2002
		US 6778965 B1	17-08-2004
		US 6269338 B1	31-07-2001
		EP 0922334 A2	16-06-1999
		WO 9856116 A2	10-12-1998
		JP 2001501421 T	30-01-2001
		US 2001041984 A1	15-11-2001
EP 0866456	A	23-09-1998	
		DE 69712307 D1	06-06-2002
		DE 69712307 T2	12-12-2002
		EP 0866456 A1	23-09-1998
		US 6292625 B1	18-09-2001
		CN 1209899 A ,B	03-03-1999
		DE 69709188 D1	24-01-2002
		DE 69709188 T2	22-08-2002
		DE 69718355 D1	13-02-2003
		DE 69718355 T2	04-09-2003

INTERNATIONAL SEARCH REPORT

Information on patent family members

onal Application No

IB2004/051176

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
EP 0866456	A	DE 69720550 D1	08-05-2003
		DE 69720550 T2	29-04-2004
		EP 1018734 A1	12-07-2000
		EP 1031979 A1	30-08-2000
		EP 1096490 A1	02-05-2001
		EP 1282127 A1	05-02-2003
		ID 21144 A	29-04-1999
		WO 9814938 A1	09-04-1998
		JP 3098237 B2	16-10-2000
		JP 2000322876 A	24-11-2000
		JP 3097918 B2	10-10-2000
		JP 2000322840 A	24-11-2000
		US 2003194216 A1	16-10-2003
		US 2003206721 A1	06-11-2003
		US 2003194217 A1	16-10-2003
		US 2003194218 A1	16-10-2003
		US 6282365 B1	28-08-2001
		US 6574420 B1	03-06-2003
		US 6314235 B1	06-11-2001